



Specification

Concerning Product:	
Article number	55589623ELIR
Trade name / designation / denomination	Acesulfam Kalium (Potassium) (E 950)
CAS number	55589-62-3
Other names / synonyms	•6-methyl-1,2,3-oxathiazin-4(3H)-one 2,2-dioxide, potassium salt; •Acesulfame K; •acesulfame potassium; •potassium 6-methyl-2,2-dioxo-1-oxa-2\$;
EC number	259-715-3
Customs tariff number / CN code / TARIC	29349990
Molecular weight [g / mol]	201.24216
Formula	C ₄ H ₄ KNO ₄ S

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance of solution	EP	clear and colourless	
Colour	visual	white	
Flavor and taste		approx. 200 times as sweet as sucrose	
Odour	sensoric	odourless	
Physical parameter			
Acidity/Alkalinity	EP	complies	
Form	visual	crystalline powder	
Substances insoluble		no residues on filtration (100g dissolved in 1000 mL water / filtration over 0.45 µm membrane filter)	
Loss on drying	FAO/WHO	(105 °C, 2 h) ≤ 0,2	%
Loss on drying	EP	(105 °C, 3 h)	%
pH value	potentiometric	(1% in H ₂ O) 5,5 – 7,5	
Bulk density		* (@ 20°C) 1100 – 1300	kg/m ³
Solubility		in Acetone: ~ 0.8 g/L @ 20° C	

Solubility		in Ethanol: ~ 1 g/L @ 20° C	
Solubility		in H ₂ O: ~ 270 g/L @ 20° C	
Identity			
Assay	HPLC	C ₄ H ₄ NO ₄ SK: 99,5 – 100,5	%
Assay	IC	K: 17,0 – 21,0	%
Identification	UV	(0.01 g/L in H ₂ O): 225,0 – 229,0	nm
Identification	FAO/WHO	Test for potassium: positive	
Impurities			
Heavy Metals (as Pb)		≤ 5	ppm
Sulphates (SO ₄)	IC	≤ 20	ppm
Impurity	HPLC	5-Cl-Acesulfame K: ≤ 2	ppm
Impurity	HPLC	Acetylacamide: 0,5 – 1,0	ppm
Impurity	IC	Potassium acetate: ≤ 0,5	%
Impurity	HPLC	total UV active organic components: ≤ 20	ppm
Elemental Impurities			
Arsenic (As)	ICP MS	* ≤ 0,1	ppm
Cadmium (Cd)	IPC MS	* ≤ 0,1	ppm
Fluorine (F)	IC	≤ 1	ppm
Mercury (Hg)	AAS	* ≤ 0,01	ppm
Lead (Pb)	IPC MS	* ≤ 0,1	ppm
Selenium (Se)	IPC MS	* ≤ 0,2	ppm
Microbiological data			
Escherichia Coli.	EP	* neg.	/1 g
Pseudomonas aeruginosa	EP	* neg.	/1 g
Salmonella	EP	* neg.	/10 g
Staphylococcus Aureus	EP	* neg.	/1 g
Yeast and Mould	EP	* ≤ 10	CFU/g
Particle size distribution			
Particles		< 1000 µm: ≥ 95	%

Annotation:

* Value is based upon statistical evaluation and is adhered to with each batch.

n.d. = not detectable / nicht messbar

Regulatory information:

Allergens statement: The product does not contain substances having allergic properties, for which labelling is required, as listed in Annex IIIa of the Directive 200/13/EC and subsequent amendments.

GMO statement: Genetic engineering:

For the above mentioned product there is no obligation of g.m.o. labelling as defined by the Regulations (EC) No **1829/2003** and **1830/2003** of the European Parliament and the Council of 22nd September 2003.

Nanoparticles: Neither nanoparticles nor nanotechnology is intentionally used in the manufacturing process of the product.

Registration status: The above mentioned product complies with the Regulation (EU) 1169/2011, the US Food Allergen Labelling and Consumer Protection Act of 2004 and the Japanese Food Sanitation Law.

Supplemental information:

Shelf life: 5 years

Derivation: synthetically

Storage conditions: Product should be stored in the originally closed packaging protected from sunlight, at ambient temperature (max. 30 °C) and dry (max. 65 % relative humidity) conditions.

Complies with monographie: FAQ/WHO, FCC, JSFA, EC, E950

Regional origin: D

Usage: food ingredient; component of food fit for human consumption

The existing legal restrictions for use in foods and drugs must be observed.

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 23. Jul. 2021

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